ME SPO Resolve 23
Development Tracking DATA INVENTORY

Yellow Cells: GROWTH INDICATOR LAYERS

		Target Layer	Description	Current Coverage Area	Data Capture and Maintenance Cost	Strengths	Limitations	Available Adjustments to Lessen Limitations	Source
Linear Features	GROWTH INDICATORS / INFRASTRUCTURE	Roads: DOT	Department of Transportation roads, classed by type with rich attributes for managing transportation infrastructure	Statewide		Rich attribute set containing maintenance informaton and traffic counts.	Geometry less accurate than MeGIS 911 roads.	Will be combined with e911 roads within a year	MeGIS
		Roads: MeGIS E911	Used for reference and increasingly E911 compatibility. Include address ranges	Statewide. Updates only available from participant towns		Accuracy being ensured through network of participant towns.	Not all municipalities are participating.		DOT (MeGIS, late 2002)
		Roads: Private Vendor	Varies. Usually used for navigational purposes	Statewide	$5,000 - $10,000 / year statewide	Commercial consistency, year over year.	Very inaccurate in rural areas		Geographic Data Technology, ETAK, Navitech
		Public Water Lines	Water distribution system infrastructure	Restricted to water served areas	Inexpensive at planning scales.		Limited to areas with public water supply infrastructure		Individual water utilities
		Public Sewer Lines	Sewer pipe infrastructure and associated featues	Restricted to sewer servved areas	Inexpensive at planning scale. Many thousands of dollars per community at engineering scale. There is no middle ground	Accurately captures sewered area. Defines boundary where development density can exceed soil perc capacity	Limited to areas with built public sewer systems		Individual sewer utilities
		Electrical Utility Lines	Electric power lines and utility features (poles, transformers, etc)	Electrified addresses	At discretion of Electric utilities.	Very widespread. Nearly all households and businesses are on the grid	Requires cooperation of POWER companies	Could be aggregated by PUC.	Individual electric utilities.
		Phone Lines	Phone lines and poles	Phone-serviced addresses	At discretion of phone companies	Very widespread. Most homes and businesses continue to maintain landlines	Requires cooperation of PHONE companies. Cellphones are eroding need for landlines	Could be aggregated by PUC.	MeGIS maintains telephone exchanges layer. Line data available from individual utilities
		Cable Lines	Cable lines, poles, and distribution information	Cable service areas	At discretion of cable companies	Very dynamic layer. Could be useful as a Economic Development support tool.	Requires cooperation of CABLE providers.	Could be aggregated by PUC.	
		Gas Lines	Gas distribution lines	Gas Service areas			Would require cooperation of GAS utilities, and is limiited to small number of gas serviced areas.	Could be aggregated by PUC.	
	NATURAL ENVIRO.	Hydrologic Features (streams)	Rivers and streams. Currnently being enhanced to	Available statewide @ 1:24K					MeGIS
Point Features	GROWTH INDICATORS / INFRASTRUCTURE	Geocoded Property Centroids	points representing approximate centers of individual land parcels	None presently. Requires integrated capture strategy	Generally derived from parcels. N/A				Municipalities (assessing/engineering)
		Geocoded Plumbing Permits (with Sewer/Water connection info)	ponts derived from address information on permits	Aggregated statewide by DHS. 40,000 permits processed annually.			Too many false positives	combine with other sources	DHS Wastewater and plumbing control program
		Geocoded Building Permits	points derived from address information on building permits	Limited to municipalities requiring building permits			Incomplete coverage	combine with other sources	Municipalities
		Geocoded Utility Pole Permits	Accurately captured locations of all utility poles in electric/phone service areas	Statewide where phone and electricity are available		Available data set; provide accurate advance indicator of growth	Not one-to-one relationship between poles and buildings; Utilities not willing to share data		Utilities statewide
		Electrical Connection Permits	Permits describing shoreland zoning and subdivision compliance for new construction.	All areas of electrical serivice area in Maine (CMP, Bangor Hydro, etc)		Captures all new construction, including intended construction	Not all permits are acted on; some remain unbuilt.	combine with other sources	Utilities: CMP/Bangro Hydro/
		E-911 road-snapped "string of pearls" driveway locations re-positioned to structures	Would be joined with assessor attributes and moved to appropriate locations	statewide, subject to input participation by code, address officers and other collaborators				combine with other sources	MeGIS
		GPS Structures	field collected locations of structures as points	None presently. Requires integrated capture strategy	Variant of this data set captured as part fo E-911 initiative …				Individual municipalities
	INFRASTRUCTURE	Cell Phone Towers		Statewide					MeGIS
		Public Water Supplies		Statewide					MeGIS
		Schools		Statewide					MeGIS
		Fire Stations, Hospitals, Ambulance units, Police Stations		Statewide					MeGIS
		Sewage Treatment Plants		Sewered Areas, downstream nodes					
Polygon Features	GROWTH INDICATORS / INFRASTRUCTURE	Property Parcels	polygons representing shape and location of actual property delineations	Limited to 50+ municipalities. Generally these are cities and larger towns. Not necessarily the areas where growth is occurring fastest.	$5,000 - $50,000 / town depending on level of accuracy	ultimate resource describing fragmentation. Assessor's attribute data associated with parcels very useful for development characterization	With less than 25% of statewide organized towns mapped digitally, this is a spotty resource, though over 90% of towns have hardcopy parcel mapping. No system in place for standardizing geometery and attributes	Digitization of data to a planning level accuracy adhering to specific state standards over large areas. Establish, encourage and enforce standards for automation	Individual municipalities (assessing departments)
		Buidling Footprints	polygons representing shape and location of actual structures	Limited to small number of municipalities, generally those that have undertaken expensive (>$50,000) technical photogrammetric flyover	Very high. Generally exceeding $50,000 per town due to technical planimetric requirements	Extremely accurate measurement of built environment	Dificult to keep current	symbolize points / centroids.	Individual municipalities (engineering departments)
		Planimetric Features (edge of pavement, driveways, parking lots, etc.)	lines, polygons and points representing shapes and locations of visible land features	Limited to small number of municipalities, generally those that have undertaken expensive (>$50,000) technical photogrammetric flyover	Very high. Generally exceeding $50,000 per town due to technical planimetric requirements	accurately captures impervious surfaces and all other visible features	Dificult to keep current	Automated feature capture from high resolution satellites may change availability in 5-10 year timeframe	Individual municipalities (engineering departments)
	NATURAL ENVIRONMENT	Hydrologic Features (ponds & rivers)	rivers and ponds as polygons	Available statewide @ 1:24K					MeGIS
		Wetlands		Available statewide @ 1:24K					MeGIS
		Soils							
		Slopes							
		Aquifers		Available statewide @ 1:24K					MeGIS
		Floodplains							MeGIS
		Wellhead Protection Zones							MeGIS
	REGULATORY	Shoreland Zoning		Mandated statewide. Poor digital coverage. No existing, standard digital maintenance methodology					DEP/CoGs/SPO
		Special Use Overlays							
		Flood Hazard Areas							
		Conservation Lands	polygons representing lands held in conservation by federal, state, municipal and private entities, including easements	Statewide, 100K .. Updates and enhancements planned for 2002 under SCORP contract	Very expensive and difficult to maintain if acquired to EASEMENT level.	Useful by many entities and jurisdictions. Essential for informed planning and resource protection	Inadequate scale to support municipal and regional planning needs. Doesn't contain many muni holdings and private easements		Maine SPO: Dick Kelly, MeGIS

ECONOMIC DEVELOPMENT	Tax Increment Financing Districts	Districts where a municipality may use some or all of the new property taxes that result from an investment project within a designated district to assist in that project's expenses	Small sites, many urban locations			Very limited coverage		
	Business & Industrial Parks	areas where business and industrial parks exist or are planned, including tenant and amenity attributes of these locations						
DEMO GRAPHIC	School Population Data	Enrollment data as reported to the Department of Education.	Statewide. Must be linked to school district data or school points	Tabular data publicly available at DOE site	Describes growth or variation in school age population	Accurate only to schoool district boundaries		http://www.state.me.us/education/enroll/enrlfacts.htm
	Census Data	Housing and Population data for Tracts, Blockgroups and Blocks for 2000 and previous decennial increments (1990, 1980)	Statewide, 100k. Available from US Census/ESRI download at 24K	Available for free download in shapefile format from Census/ESRI			Should be distributed from MeGIS	

Imagery Resources	Digital Ortho Quads (DOQQ)	High resolution (1 meter) black and white aerial photographs for 2./3 of maine.	Cover approximately 2./3 of maine. Most areas except western state					
	LandSat TM imagery	30 meter color LandSat (satellite) images from 1992	statewide		statewide coverage, inexpensive	too coarse to be userful for muni/regional applications		
	SPOT 10 Meter Imagery	medium resolution imagery	statewide, 2000	$15,000 - $20,000 statewide	inexpensive and consistent	coarse		
	Municipal and regional ortho imagery	aerial flyover images that haven't been corrected to layer in mapping systems	many parts of state, coast	relatively inexpensive				
	Municipal and regional aerial imagery (non-orthophotographic)	Aerial flyover images captured at high resolutions as part of local or regional efforts	various communities statewide	$5 - $25,000/town				
	USGS Topograhic Maps	Traditional USGS topo maps, scanned and registered at scales from !:24K - 1:250,000K	statewide	inexpensive	statewide coverage	not updated frequently, coarse, not photographics		
	OTHER IMAGERY SOURCES: **SEE Report Section 3.2.1.4**							